

## A B S T R A C T

A SYSTEM FOR PROVIDING ASSISTANCE IN REGENERATING  
DEPOLLUTION MEANS INTEGRATED IN AN EXHAUST LINE OF A  
5 VEHICLE DIESEL ENGINE

This system, in which the depollution means (1) are  
associated with oxidation catalyst-forming means (2), and  
the engine (4) is associated with common rail means (7)  
10 for feeding it with fuel and adapted to implement a  
regeneration strategy using at least one post-injection  
of fuel into the cylinders, is characterized in that it  
includes means (8) for detecting a request (req.RG) for  
regeneration, means (9, 10) for detecting a state in  
15 which the vehicle accelerator pedal is being raised or a  
stage in which the engine is idling, means (11) for  
acquiring the temperature downstream from the catalyst-  
forming means, means (8) for responding to said  
temperature to determine a maximum quantity of fuel to be  
20 injected during post-injections during stages in which  
the engine is returning to idling as a result of the  
accelerator pedal being raised and stages during which  
the engine is idling, and means (7, 8) for immediately  
interrupting the post-injection if the quantity of fuel  
25 injected reaches the maximum quantity during a stage of  
returning to idling, and/or for progressively reducing  
the post-injection if the quantity of fuel injected  
reaches the maximum quantity during a stage of idling.

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35 Translation of the title and the abstract as published by the ECT Authorities,  
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